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मानक

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IS 6112 (1971): Speculum, Vaginal, Double Ended (Sim's Pattern) [MHD 3: Obstetric and Gynaecological Instruments and Appliances]



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Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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AMENDMENT NO. 1 JULY 1980

TO

**IS : 6112-1971 SPECIFICATION FOR SPECULUM, VAGINAL,
DOUBLE ENDED (SIM'S PATTERN)**

Alteration

(*Page 2, clause 6.3*) — Substitute the following for the existing clause:

"6.3 Corrosion Resistance (Applicable Only to Stainless Steel Instruments) — Test the sample in accordance with IS : 7531-1975 'Method for boiling and autoclaving test for corrosion resistance of stainless steel surgical instruments'. The sample shall show no sign of corrosion after the test."

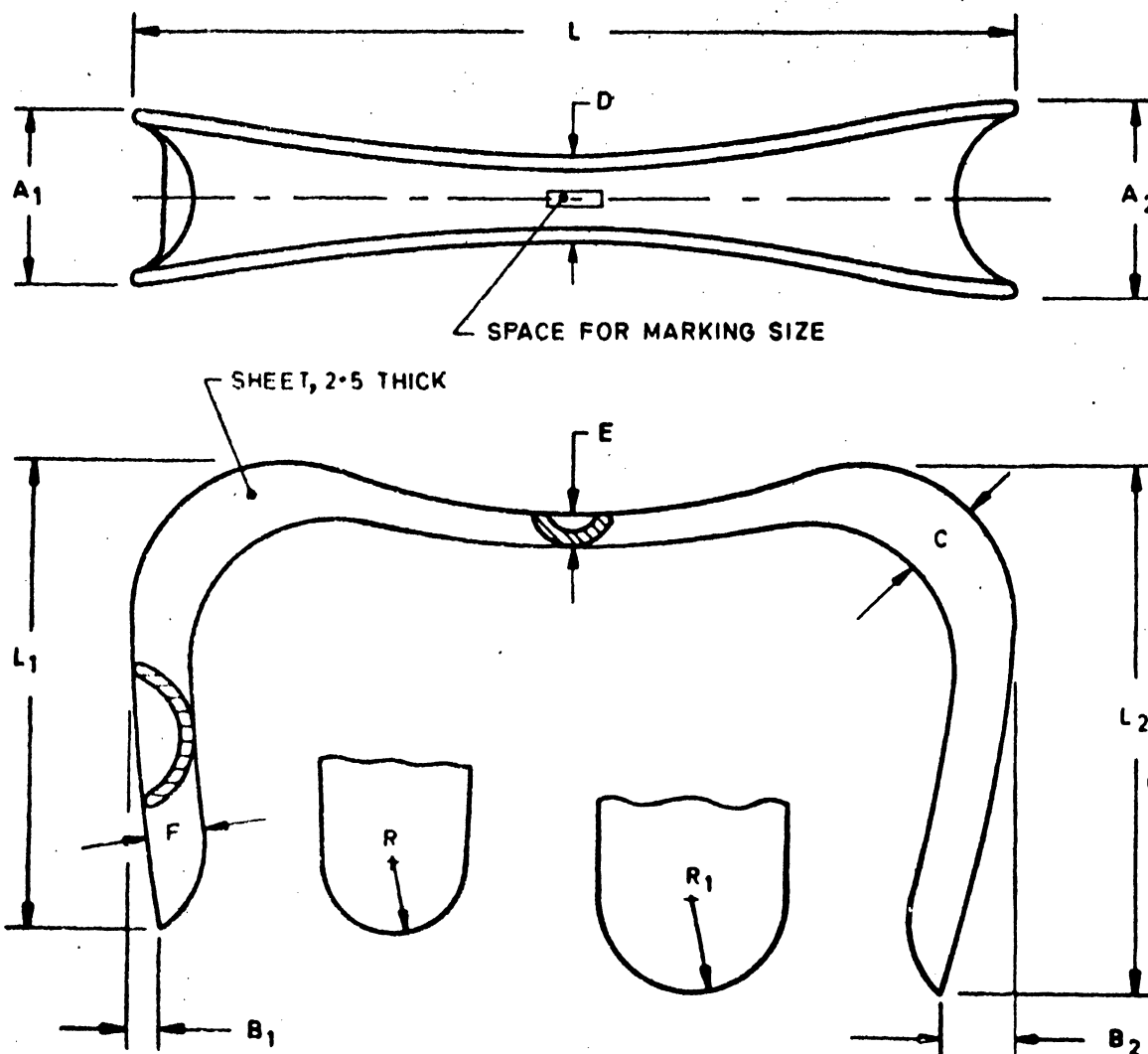
(CPDC 25)



Indian Standard

SPECIFICATION FOR SPECULUM, VAGINAL, DOUBLE ENDED (SIM'S PATTERN)

1. **Scope** — Dimensional and other requirements of vaginal speculum, double ended (Sim's pattern).
2. **Shape and Dimensions** — As shown in Fig. 1.



Sizes	L	L ₁	L ₂	A ₁	A ₂	B ₁	B ₂	C	D	E	F	R	R ₁
Small	130	80	85	26	32	4.0	9.0	14.0	15.0	6.0	10.0	11.0	13.0
Medium	160	85	95	32	36	6.0	13.0	14.0	15.0	6.0	10.0	13.0	17.0
Large	175	95	105	36	42	12.0	13.0	16.0	17.0	7.0	13.0	17.0	19.0

All dimensions in millimetres.

FIG. 1 SPECULUM, VAGINAL, DOUBLE ENDED (SIM'S PATTERN)

3. **Material** — Speculum shall be made of stainless steel of Designation O4Cr19Ni9 or O7Cr19Ni9 of Schedule V of IS: 1570-1961 'Schedules for wrought steel for general engineering purposes', or brass (Min 60 percent copper), or carbon steel of Designation C35 of Schedule II of IS: 1570-1961.

4. Workmanship and Finish

4.1 All surfaces shall be free from burrs, pits, cracks, and other defects.

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4.2 All edges shall be smoothly rounded off and shall not be sharp.

4.3 If made of stainless steel the speculum shall be passivated and polished bright. In the case of carbon steel or brass it shall be plated chromium over nickel conforming to Service Grade 2 respectively of IS:1068-1968 'Specification for electroplated coatings of nickel and chromium on iron and steel (first revision)' and IS:4827-1968 'Specification for electroplated coatings of nickel and chromium on copper and copper alloys'.

5. Heat Treatment

5.1 The instrument made of carbon steel shall be hardened and tempered to 380 to 420 HV.

6. Tests

6.1 Grip the blades in a vice and try to straighten the blades by applying a force of 50 N (5 kgf approximately) on each blade. The blades shall resist this and show no sign of damage after test.

6.2 Grip the speculum in a vice with its long blade protruding out horizontally. Suspend a load of 150 N (15 kgf approximately) from the tip of the blade. Attain this load gradually and allow to act for 2 minutes. After the test the speculum shall show no sign of damage.

6.3 *Corrosion Resistance (Applicable Only to Stainless Steel Instruments)*—Scrub the sample with soap and warm water, rinse in hot water and then dip in 95-percent ethyl alcohol. Dry the sample. Immerse in copper sulphate solution at room temperature for 6 minutes and wash off with fresh water or wet cotton wool. Make up the solution as follows:

Copper sulphate ($\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$)	40 g
Sulphuric acid (H_2SO_4) (sp gr 1.84)	10.0 g
Water (H_2O)	90.0 ml

There shall be no red stains or spots on the sample but dulling of polished surface may be permitted.

7. **Marking**—Mark with manufacturer's name, initials, or registered trade-mark; if made of stainless steel, mark 'SS', and size (see Fig. 1) as S, M and L.

7.1 *ISI Certification Marking*—Details available with the Indian Standards Institution, New Delhi.

8. **Packing**—The speculums shall be wrapped in moisture-proof paper or packed in polyethylene bags avoiding contact with one another.